TableDefs.mesa

```
-- file TableDefs.Mesa
-- last modified by Satterthwaite, March 21, 1978 11:45 AM
DIRECTORY
  AltoDefs: FROM "altodefs";
TableDefs: DEFINITIONS =
  BEGIN
  TableSelector: TYPE = CARDINAL;
  TableBase: TYPE = [0..AltoDefs.VMLimit];
TableFinger: TYPE = POINTER TO TableBase;
  TableLimit: CARDINAL = 40000B;
  TableIndex: TYPE - POINTER [0.. TableLimit);
  OrderedTableIndex: TYPE = ORDERED POINTER [0.. TableLimit);
 -- allocation from the tables as stacks
  Allocate: PROCEDURE [table: TableSelector, size: CARDINAL] RETURNS [OrderedTableIndex];
  TableBounds: PROCEDURE [table: TableSelector] RETURNS [base: TableBase, size: CARDINAL];
  TrimTable: PROCEDURE [table: TableSelector, size: CARDINAL];
 -- allocation from free list (first table only)
  chunktype: TableSelector = FIRST[TableSelector];
  GetChunk: PROCEDURE [size: CARDINAL] RETURNS [TableIndex];
FreeChunk: PROCEDURE [i: TableIndex, size: CARDINAL];
 -- notification of repacking
  TableNotifier: TYPE = PROCEDURE [base: DESCRIPTOR FOR ARRAY -- TableSelector -- OF TableBase];
  AddNotify: PROCEDURE [proc: TableNotifier]; DropNotify: PROCEDURE [proc: TableNotifier];
 -- initialization and termination
  Region: TYPE = RECORD [origin, size: CARDINAL];
  InitializeTable: PROCEDURE [region: Region, divisions: CARDINAL];
  EraseTable: PROCEDURE;
  TableOverflow: SIGNAL RETURNS [Region];
  TableFailure: ERROR [table: TableSelector];
  END.
```